



Tessellation 5 (B)

"Natural corundum, my ass."

Suite: Tessellation Party
by Arya Akhavan (October 2012)

Angles for R.I. = 1.540

40 + 9 girdles = 49 facets

3-fold, mirror-image symmetry

96 index

L/W = 1.026 T/W = 0.345 U/W = 0.299

P/W = 0.442 C/W = 0.194

Vol./W³ = 0.217

PAVILION

P1	44.66°	96-32-64	Cut to centerpoint.
P2	43.61°	09-23-41-55-73-87	Meet at culet.
G1	90.00°	09-23-41-55-73-87	Set stone size.
G2	90.00°	96-32-64	Level girdle.
P3	42.27°	01-31-33-63-65-95	Meet P1, P2, G1, G2
P4	41.00°	10-22-42-54-74-86	Meet P2, G1; culet

CROWN

C1	66.14°	09-23-41-55-73-87	Set girdle width.
C2	64.03°	96-32-64	Level girdle.
C3	29.74°	12-20-44-52-76-84	Meet G1, C1
C4	22.00°	96-32-64	Meet C1, C2, C3
T	0.00°	Table	Meet C3, C4

This is a slight expansion of Tessellation 2 (B), a truncated triangle. It's incredibly easy and straightforward to cut. It may be a tessellated checkerboard, but it's got the reflection pattern and light return of a brilliant. Can be cut in any material from quartz to rutile (RI = 1.54 - 2.62) with no changes, but I like it best in citrine.

Suggested size = 5-10 mm

C:\Program Files (x86)\GemCAD\Designs (Mine)\Works in Progress\Tessellations\Tessellation 5 (B) - Natural Corundum